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## Jennie O Foods Inc. Roasted Turkey Breast Trial March 21, 2000

The following report concerns a cooking trial conducted by Unitherm Food Systems Inc. on behalf of Jennie O Foods Inc.

The product consisted of eight pieces of injected turkey breast whole muscle with the skin on. The dimensions of the product uncooked, were approximately 10" x 6" x 3" and the average weight was 4.39 lb.

The product was placed inside an unsealed vacuum pack bag with the open end folded underneath the product. It was chilled to below 40° F and then roasted in a Unitherm rotisserie for 86 minutes at 390° F. The internal temperature was measured at 162° F after roasting.

The average yield was 77.8%. The dimensions of the product after roasting were approximately  $8\frac{1}{2}$  x 5" x 3" and the average weight was 3.42 lb.

The color was uniformly brown with dark highlights where the purge had caramelized. On all the samples, the bag had shrunk and had defined the shape of the meat. In some places the bag had burned. The results matched the sample provided by Jennie O Foods. It should be noted however, that the sample measured 7" x 4½" x 3" and weighed only 2.64 lb suggesting that it was a significantly smaller piece compared to the pieces we used for the trial. If this is the case, we estimate the processing time on the smaller cut of meat would be near to 80 minutes.

It can also be seen that the core temperature continued to rise after the meat had been taken out of the oven. This could be used to reduce the processing time.

Enclosed are the data sheets and the temperature profile taken during the trial.

Regards

David Atkinson Area Sales Manager

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#		23 min	475	Four	48-11	11·52	97.3%	Care 38.17 1" in 62.7 Purpos 1207	faor
*		28 win	475	Fau. 2043	11. 75	11.31	96.3%	Core 34.17 1: in 65.6 furface 1207	foor
*		28 ww	475	Four ROH3	14·74	ולי. ן	95.7%		Bornel hindth mays across oven belt
*		18 wm	s4h	Faur	12855	12.60	% 86		Watered Block
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Remarks 3 Date: April 8, Lowe Water Supplied By: Internal Temp. F. Z 2 96.4% Yield 3 14.255 Start | Cooked Temperatures C. | Weight | Weight Brat 下3 Processed and ent **Zone 2** بملكا **UNITHERM Food Systems, Inc.** Fac. 20 43 Product: Zone 1 475 र् 3 Cooking Trial Data 25 wm Cook عنامي Speed ತ್ತ Test # NOTES ¥ \$ # \* # # \*

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ၓ	oking T	Cooking Trial Data							
			Product:		Processed Ham	***		Supplied By:	By: Towa Ham Port 3
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